



Q-R Jr. (Direct Drive)



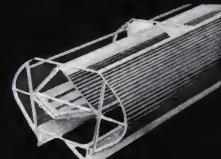
Q-R Jr. (Belt Drive)



UPBLAST



SUPERFLO



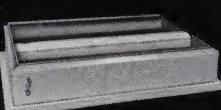
SLEEK-LINE



EXHAUSTMASTER



LP EXHAUSTMASTER



FIRE VENT



SIMPLEX



ROOF-LINE

Vanco

ROOF VENTILATORS

MODELS

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E. VAN NOORDEN COMPANY

100 MAGAZINE STREET, BOSTON 19, MASS.



ALL VANCO products are A. F. of L. Building Trades Union made — your assurance of highest quality throughout.

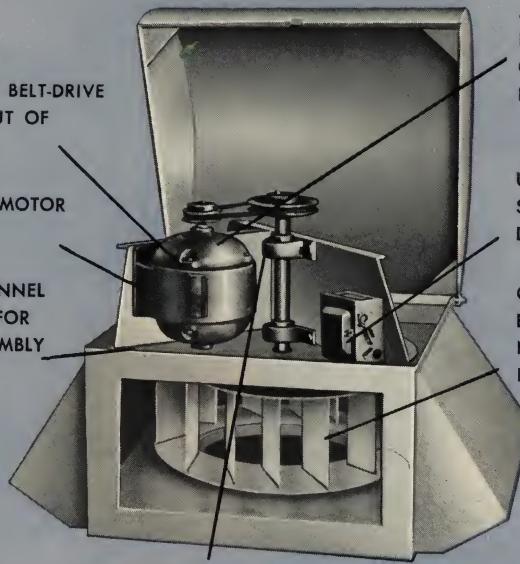
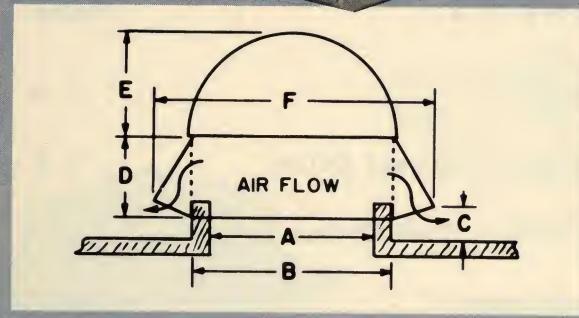
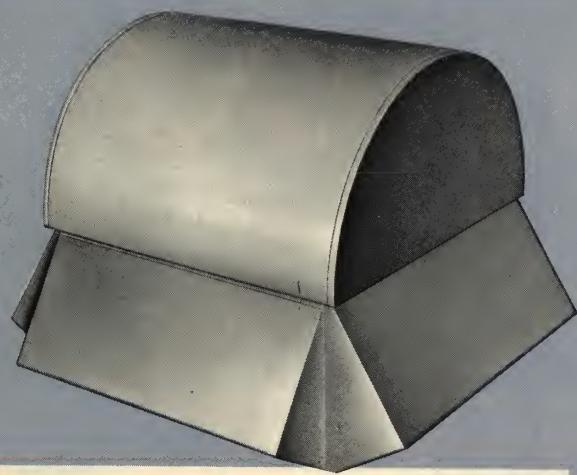
Established 1873 — Over 85 years of ventilator manufacturing experience

Member of the Air Moving and Conditioning Association

For VANCO DOME LITES	see Section 20a/Va
For VANCO DURATITE SKYLIGHTS	see Section 20b/Van
For VANCO LOUVERS	see Section 20d/Va
For VANCOLUX POLYESTER SKYLIGHTS	see Section 20b/Va

Vanco Q-R

Quiet Running POWER ROOF VENTILATOR



MODEL NUMBER CHART

Dimensions, Inches	30	34	40	44	48	54	60	66	72	80	88	98	108	120
A	12	14	16	18	22	25	28	31	34	38	42	48	54	60
B	20	22	24	26	30	33	36	39	42	46	50	56	62	68
C	18	18	18	18	18	18	18	18	18	18	18	18	18	18
D	10	12	14	16½	18	20	21	23	26	28	31	35	39	42
E	10	10	11	14	16	17	18	19½	22	24	26½	29	31½	34
F	33	36	39	43	46	52	55	60	65	71	79	89	96	103
Wheel Dia.	15	17	20	22	24	27	30	33	36	40	44	49	54	60

NOTE: C Dimensions, recommended minimum curb height

VANCO "Q-R" (Quiet-Running) power Roof Ventilators provide quiet, vibration-free, controlled ventilation for applications where air resistance is encountered and noise levels are critical.

A specially designed inlet directs the air into a centrifugal fan wheel which provides efficient exhaust regardless of weather conditions. Backward curved blades on the fan wheel prevent overloading of the motor.

To provide noiseless, vibration-free operation, the entire motor assembly and fan wheel float on live neoprene vibration eliminators. Welded, one-piece, airframe construction gives further assurance against noise and vibration. This construction also makes the ventilator weather-tight and virtually maintenance-free.

GAUGE & MATERIAL TABLE

MODEL	HOUSINGS and SKIRTS			
	GALV.	ALUMINUM	COPPER	PROTECTED METAL
(U.S. Gauge)	(Thick.)	(B&S. Gauge)	(Ounces)	(U.S. Gauge)
30	.22	.032	20	16
34	.22	.032	20	16
40	.22	.032	20	16
44	.22	.032	20	16
48	.20	.040	18	20
54	.20	.040	18	20
60	.20	.040	18	20
66	.20	.040	18	20
72	.20	.040	18	24
80	.20	.040	18	24
88	.20	.040	18	24
98	.20	.040	18	24
108	.20	.040	18	24
120	.20	.040	18	24

OPTIONAL EQUIPMENT

1. Automatic or motor operated back draft dampers can be furnished separate or mounted in extended base.
2. Bird screens.
3. Explosion-proof motors and spark-proof wheels for installations over volatile processes.
4. Insulated top plate for extreme heat applications.
5. Magnetic or thermal control switches.
6. Modifications can be made in motor or sheave arrangements for intermediate exhaust ratings.

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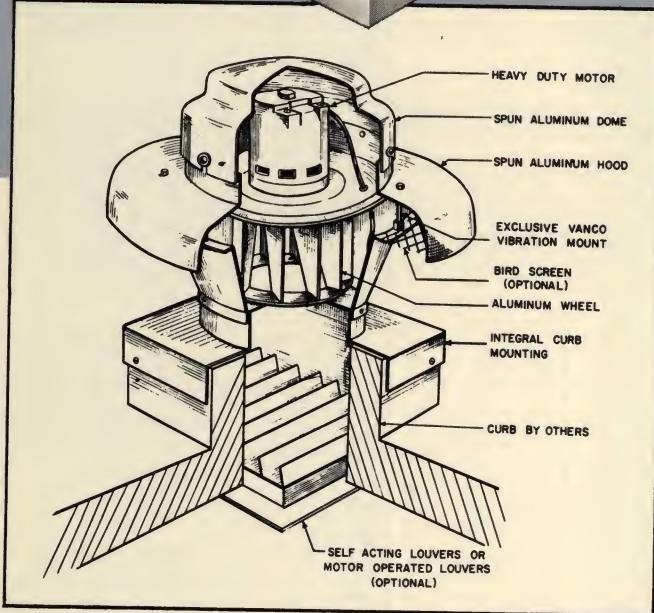
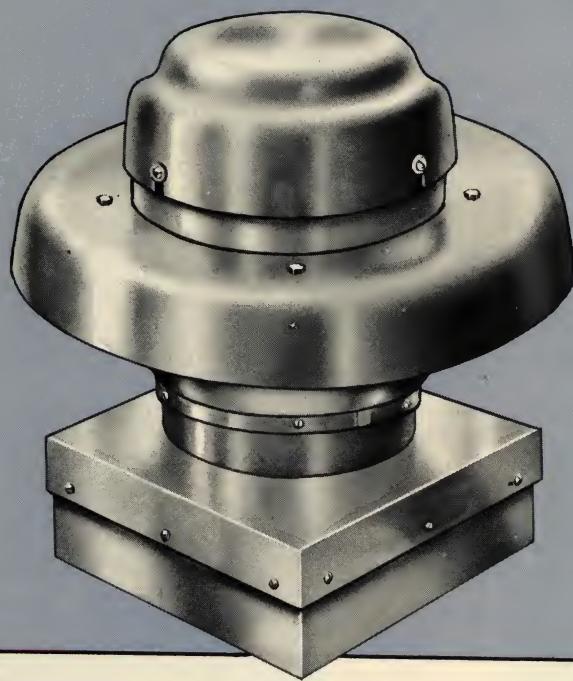
Q-R Quiet-Running Power ROOF VENTILATORS

AIR MOTION TABLE

STATIC PRESSURE												STATIC PRESSURE											
Model	HP	F.RPM	T.S.	F.A.	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"		Model	HP	F.RPM	T.S.	F.A.	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	
30A	1/2	1285	5050	2500	2480	2460	2430	2380	2310	2200		66A	2	550	4750	11370	11300	11200	11100	11000	10190	9430	
B	1/2	1190	4710	2310	2290	2260	2150	2040	1880			B	1 1/2	515	4440	10650	10500	10400	9750	9120	8030		
C	1/3	1120	4400	2180	2160	2130	2080	1990	1840	1600		C	1 1/2	481	4150	9920	9850	9750	9600	8760	7810	6220	
D	1/3	1075	4230	2090	2070	2040	1970	1860	1680	1380		D	1	460	3970	9510	9430	9330	8790	8110	6820	4180	
E	1/4	1015	4000	1970	1950	1910	1830	1680	1430	910		E	1	439	3790	9070	8980	8860	8220	7340	5680		
F	1/4	935	3770	1820	1790	1740	1630	1500	1190			F	3/4	401	3460	8280	8200	8030	7100	5580			
G	1/6	890	3500	1730	1700	1630	1550	1380	980			G	1/2	364	3140	7520	7200	5700					
H	1/6	855	3350	1660	1630	1550	1380	1190			H	1/2	350	3020	7230	7130	6870	4980					
J	1/6	810	3180	1570	1530	1440	1210	940			J	1/2	337	2910	6970	6850	6110	4200					
K	1/6	760	2990	1480	1440	1320	970				K	1/2	330	2850	6820	6680	5900	3660					
34A	1/2	1095	4870	3160	3140	3100	3060	2980	2860	2700		72A	3	548	5160	14700	14600	14500	14320	14030	13670	13160	
B	1/2	1030	4580	2980	2960	2920	2860	2760	2630	2370		B	3	508	4780	13600	13500	13400	13130	12720	12230	11430	
C	1/3	950	4230	2740	2710	2660	2580	2450	2200	1820		C	2	471	4430	12600	12470	12330	12000	11540	10770	9620	
D	1/3	910	4050	2650	2620	2570	2460	2300	1990	1410		D	1 1/2	440	4130	11800	11670	11460	11070	10420	9250	7340	
E	1/3	880	3920	2540	2510	2450	2340	2140	1760	850		E	1 1/2	407	3830	10900	10770	10540	9980	8960	7140		
F	1/4	800	3560	2310	2270	2190	2030	1670	760		F	1	380	3580	10200	10050	9790	8970	7500	3670			
G	1/4	730	3250	2110	2060	1950	1680	960			G	3/4	357	3360	9580	9420	9070	8020	5770				
H	1/4	710	3160	2050	2000	1850	1550				H	3/4	343	3230	9210	9010	8540	7270	3910				
J	1/6	695	3090	2010	1960	1830	1460				J	3/4	329	3090	8820	8600	8010	6450					
K	1/6	650	2890	1870	1810	1630	1060				K	1/2	310	2920	8320	8060	7330	5070					
40A	1	987	5150	4550	4520	4480	4430	4340	4220	4050		80A	5	512	5700	18800	18720	18570	18380	18070	17660	17040	
B	1	980	5120	4525	4490	4460	4390	4320	4180	4020		B	3	475	4980	17500	17410	17250	16930	16600	16030	15220	
C	3/4	880	4600	4060	4020	3970	3890	3760	3570	3240		C	3	436	4570	16000	15870	15650	15330	14820	13980	12670	
D	1/2	830	3430	3840	3800	3750	3640	3470	3180	2710		D	2	416	4360	15300	15150	14920	14530	13870	12830	11030	
E	1/2	785	4100	3620	3580	3520	3390	3170	2790	2110		E	2	398	4180	14600	14420	14200	13720	12920	11530	9240	
F	1/3	650	3400	3000	2930	2820	2520	1870			F	1 1/2	375	3930	13800	13610	13350	12730	11650	9620	5110		
G	1/4	618	3230	2860	2800	2650	2260	1250			G	1 1/2	355	3720	13000	12800	12450	11670	10170	7150			
H	1/4	595	3110	2740	2680	2490	2010				H	1	335	3510	12300	12100	11660	10630	8540				
J	1/6	572	2990	2640	2570	2340	1680				J	1	317	3320	11600	11380	10820	9520	6290				
K	1/6	560	2920	2590	2510	2280	1580				K	3/4	285	2990	10500	10220	9340	6900					
44A	1 1/2	945	5430	5770	5740	5710	5630	5550	5430	5280		88A	7 1/2	497	5720	24400	24300	24100	23950	23650	22700		
B	1	905	5210	5530	5500	5460	5390	5290	5140	4960		B	5	460	5300	22600	22500	22300	20050	21700	21120	20400	
C	1	860	4950	5240	5210	5170	5080	4970	4800	4540		C	5	424	4980	20800	20650	20450	20150	19650	18910	17700	
D	3/4	815	4700	4980	4940	4890	4800	4650	4430	4090		D	3	395	4550	19400	19210	19020	18630	17960	16940	15230	
E	3/4	746	4290	4560	4510	4450	4320	4100	3740	3160		E	3	369	4250	18100	17900	17670	17100	16210	14750	12300	
F	3/4	704	4040	4300	4260	4180	4010	3700	3240	2300		F	2	353	4070	17300	17100	16780	16150	15060	13030	9560	
G	1/2	652	3750	3960	3910	3800	3580	3150	2320			G	2	335	3860	16400	16170	15800	15030	13600	10910		
H	1/3	625	3590	3820	3770	3640	3380	2830	1530			H	1 1/2	315	3630	15500	15280	14800	13780	11700	7130		
J	1/3	595	3420	3630	3560	3410	3080	2340			J	1 1/2	296	3410	14500	14270	13620	12320	9350				
K	1/4	560	3190	3420	3360	3160	2700	1380			K	1	265	3050	13000	12700	11720	9180					
48A	1 1/2	817	5130	6500	6470	6410	6320	6200	6020	5760		98A	7 1/2	412	5290	27900	27700	27500	27200	26700	26050	25100	
B	1	770	4830	6130	6080	6020	5830	5760	5530	5220		B	5	385	4940	26000	25800	25600	25100	24500	23700	22500	
C	3/4	717	4500	5700	5640	5580	5450	5250	4940	4390		C	5	357	4580	24200	24000	23600	23200	22450	21200	19150	
D	3/4	675	4240	5380	5320	5250	5100	4810	4360	3600		D	3	340	4360	23000	22750	22450	20850	20900	19250	16650	
E	3/4	638	4010	5080	5020	4920	4740	4380	3740	2550		E	3	322	4140	21800	21500	21150	20400	19200	16900	13150	
F	1/2	590	3710	4700	4640	4490	4260	3670	2560			F	3	306	3930	20700	20400	20100	19100	17450	14450	7760	
G	1/2	547	3430	4350	4270	4100	3750	2830				G	2	291	3730	19700	19400	18850	17800	15550	11350		
H	1/3	525	3300	4180	4090	3880	3470	2180				H	1 1/2	272	3490	18400	18100	17400	15900	12650			
J	1/3	500	3140	3980	3890	3650	3070				J	1 1/2	252	3240	17100	16750	15850	13500	7260				
K	1/4	470	2950	3740	3640	3310	2500				K	1	230	2950	15500	15100	13750	9780					
54A	1 1/2	672	4740	7620	7560	7490	7330	7120	6830	6330		108A	7 1/2	371	5120	33600	33400	33100	32800	32200	31300	30100	
B	1	640	4520	7260	7190	7100	6950	6710	6220	5640		B	5	340	4810	30800	30500	30200	29800	28900	27600	25900	
C	1	610	4300	6920	6850	6750	6570	6220	5720	4870		C	5	307	4340	27800	27500	27100	26400	25100	23100	19800	
D	3/4	575	4060	6520	6440	6300	6060	5660	4920	3550		D	3	285	4030	25800	25500	25000	24000	22300	19100	13100	
E	3/4	537	3790	6080	5980	5830	5560	4880	3750			E	3	261	3690	23700	23300	22700	21200	18400	12400		
F	1/2	495	3490	5620	5520	5220	4640	3860				F	2	254	3590	23000	22600	21900	20300	16800	8500		
G	1/2	467	3290	5280	5180	4910	4360	2720				G	2	247	3500	22400	22000	21200	19300	15300			
H</td																							

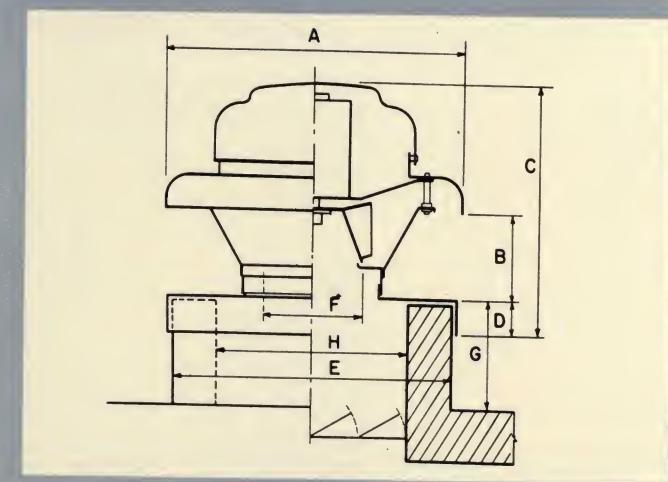
Vanco

**Q-R JR. (Direct Drive)
POWER ROOF VENTILATORS**



VANCO "Q-R Jr." (Quiet-Running) Direct Drive Power Roof Ventilators provide quiet, vibration-free, controlled ventilation for applications where air-resistance is moderate and good ventilation is needed to remove odors and excessive heat. They are designed for simple mounting on roof curbs (furnished by others) and meet a wide range of speed and volume requirements.

1. Specially engineered shock mounts effectively prevent transmission of motor noise.
2. The all-aluminum centrifugal fan wheel is both statically



DIMENSION CHART									
Model	A	B	C	D	E	F	G	H	Metal Gauges
5JA	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
5JB	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
6JA	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
7JA	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
6JB	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
7JB	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
8JA	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
9JA	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
8JB	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
9JB	20	5 $\frac{3}{4}$	15 $\frac{1}{2}$	2	20 x 20	6 $\frac{1}{2}$	10	12 x 12	.064
10JA	25	7 $\frac{1}{8}$	20 $\frac{1}{2}$	3	24 x 24	8	10	16 x 16	.064
11JA	25	7 $\frac{1}{8}$	20 $\frac{1}{2}$	3	24 x 24	8	10	16 x 16	.064
10JB	25	7 $\frac{1}{8}$	20 $\frac{1}{2}$	3	24 x 24	8	10	16 x 16	.064
11JB	25	7 $\frac{1}{8}$	20 $\frac{1}{2}$	3	24 x 24	8	10	16 x 16	.064
10JC	25	7 $\frac{1}{8}$	20 $\frac{1}{2}$	3	24 x 24	8	10	16 x 16	.064
11JC	25	7 $\frac{1}{8}$	20 $\frac{1}{2}$	3	24 x 24	8	10	16 x 16	.064
12JA	31	9	20 $\frac{1}{2}$	3	28 x 28	10	10	20 x 20	064:081
13JA	31	9	20 $\frac{1}{2}$	3	28 x 28	10	10	20 x 20	064:081
12JB	31	9	20 $\frac{1}{2}$	3	28 x 28	10	10	20 x 20	064:081
13JB	31	9	20 $\frac{1}{2}$	3	28 x 28	10	10	20 x 20	064:081
12JC	31	9	20 $\frac{1}{2}$	3	28 x 28	10	10	20 x 20	064:081
13JC	31	9	20 $\frac{1}{2}$	3	28 x 28	10	10	20 x 20	064:081
15JA	37 $\frac{1}{2}$	10 $\frac{1}{2}$	28	3	32 x 32	12	10	24 x 24	064:081
16JA	37 $\frac{1}{2}$	10 $\frac{1}{2}$	28	3	32 x 32	12	10	24 x 24	064:081
15JB	37 $\frac{1}{2}$	10 $\frac{1}{2}$	28	3	32 x 32	12	10	24 x 24	064:081
16JB	37 $\frac{1}{2}$	10 $\frac{1}{2}$	28	3	32 x 32	12	10	24 x 24	064:081

and dynamically balanced to virtually eliminate noise and vibration.

3. Efficient turbulence-free exhaust is provided by backward curved, non-overloading, aluminum fan blades.

The "Q-R Jr." is a low silhouette, weatherproof ventilator which adds a pleasing architectural effect wherever it is installed. It has been tested by an independent testing laboratory in accordance with NAFM, ASHVE and AMCA Codes.

Special pressure and heat relief units with the same dimensions and appearance, but without power element, are available.

Vanco

**Q-R JR. (Direct Drive)
POWER ROOF VENTILATORS**

DESIGN FEATURES

POSITIVE AIR EXHAUST assured by special design of baffle.

TOP SPINNING EASILY REMOVED, when desirable, simply by turning. An exclusive VANCO feature.

MOTORS ARE UNIT MOUNTED on specially designed foot-mounting brackets, cast integrally with motor frames. Can be quickly removed and replaced as a unit.

QUIET, VIBRATION-FREE OPERATION assured by isolation of motor, mounted on vibration eliminators. No through-metal contacts.

ECONOMICAL — Save on initial cost, as well as operating expense. Designed to remove more air with less horsepower.

SPECIAL DESIGN FEATURES

TWO-SPEED MOTORS can be provided at slight additional cost.

EXPLOSION PROTECTION AVAILABLE at slight extra cost.

SPECIAL CUSTOM MODELS to meet your special requirements.

SELF-ACTING or MOTOR-OPERATED DAMPERS available as required.

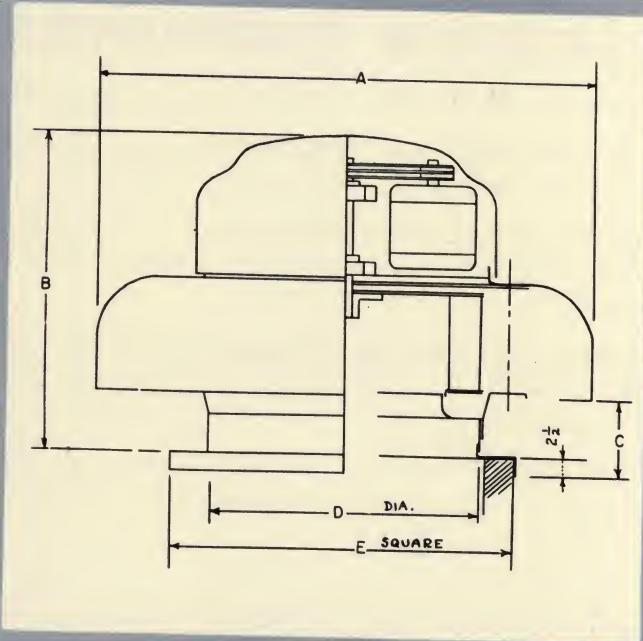
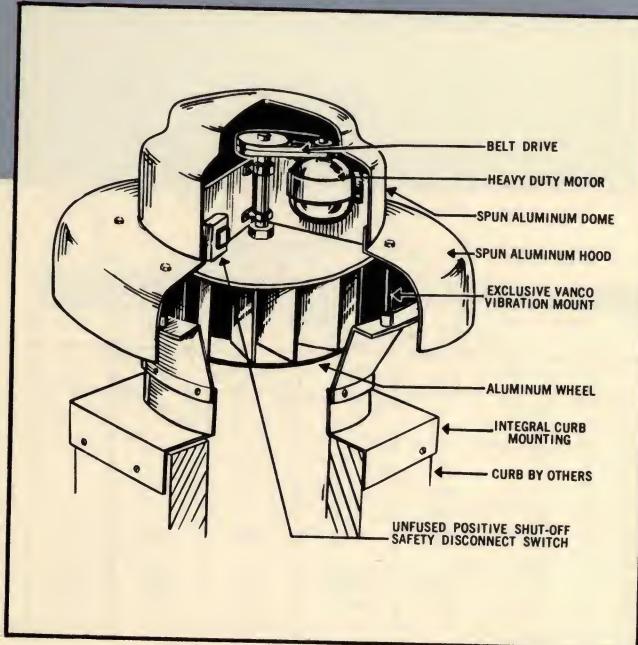
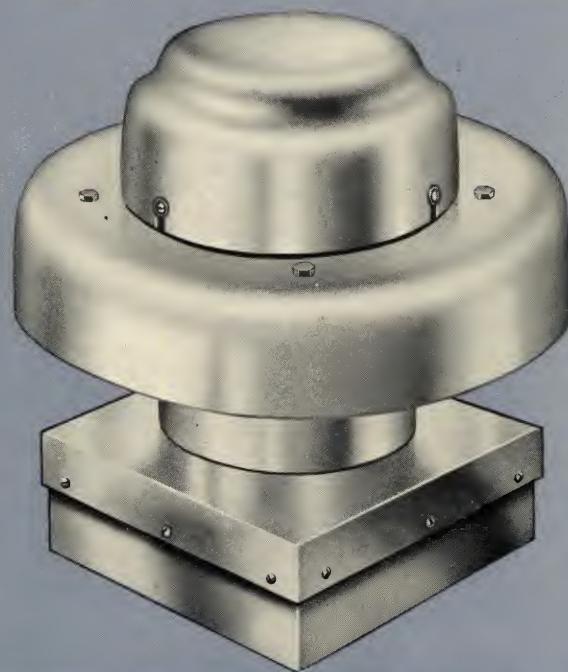
BELT-DRIVEN UNITS also available for specific requirements. SEE PAGES 6 & 7.

Q-R JUNIOR AIR MOTION TABLE (Direct Drive)

MODEL	MOTOR HP	MOTOR RPM	TIP SPEED	FREE AIR	STATIC PRESSURE							
					1/8	1/4	3/8	1/2	5/8	3/4	7/8	1
5JA	1/20	1140	1650	150	120	90	60					
5JB	1/12	1725	2480	230	185	140	90	45				
6JA	1/20	1140	1970	265	210	160	105	55				
7JA	1/20	1140	2200	365	255	155						
6JB	1/12	1725	2990	400	335	275	215	155				
7JB	1/12	1725	3330	550	475	410	340	275	210			
8JA	1/12	1140	2420	490	435	380	335	285	235	190	90	
9JA	1/12	1140	2690	535	375	285	260					
8JB	1/8	1725	3670	740	640	535	490	415	350	275	130	
9JB	1/8	1725	4070	810	690	590	515	455	420	410	315	270
10JA	1/12	860	2250	670	480	305						
11JA	1/12	860	2460	740	485	375	285					
10JB	1/8	1140	2990	890	740	610	470	340				
11JB	1/8	1140	3260	980	770	615	520	495	425			
10JC	1/4	1725	4520	1340	1250	1150	1050	970	875	780	700	615
11JC	1/3	1725	4930	1480	1330	1200	1030	945	895	830	785	755
12JA	1/8	860	2760	1230	990	770	555	175				
13JA	1/8	860	3040	1370	1030	810	700	650				
12JB	1/4	1140	3650	1630	1450	1250	1110	940	790	625	280	
13JB	1/4	1140	4030	1810	1550	1320	1140	1000	940	915	870	670
12JC	1/2	1725	5530	2460	2330	2210	2090	1980	1880	1775	1660	1540
13JC	3/4	1725	6090	2740	2560	2390	2220	2010	1940	1830	1700	1610
15JA	1/4	860	3380	2260	1960	1700	1410	1055	900	320		
16JA	1/3	860	3720	2600	2160	1800	1550	1380	1320	1260	960	
15JB	1/2	1140	4480	3000	2760	2550	2345	2150	1935	1735	1540	1355
16JB	3/4	1140	4930	3450	3100	2810	2520	2310	2090	1930	1830	1780

Vanco

**Q-R JR. (Belt Drive)
POWER ROOF VENTILATORS**



WHEEL DIAMETER	A	B	C	D	E
16 & 18	34	26	6½	18½	28
22 & 24	44	30	8	24½	34
27 & 30	54	35	9	30	40
33 & 36	63	40	10	36	46

VANCO "Q-R Jr." (Quiet Running) Belt Drive Power Roof Ventilators provide quiet, vibration-free, controlled ventilation for applications such as hospitals and schools where air resistance is moderate-to-heavy and noise levels are critical.

To virtually eliminate noise, the motor and fan wheel are mounted on neoprene vibration eliminators located out of the air stream. The V-belt arrangement provides a wide range of operating speeds which can be adjusted to meet requirements.

These highly styled, architecturally attractive, low silhouette units are made of long life, rust-proof spun aluminum (almost $\frac{1}{8}$ " thick) which lightens the roof load, provides extreme strength and blends with the beauty of the installation. They are designed for simple mounting on roof curbs (provided by others). Many models are available to meet a wide range of speed and volume requirements.

Vanco

Q-R JR. (Belt Drive)
POWER ROOF VENTILATORS

DESIGN FEATURES

LOW SILHOUETTE enhances appearance of installation.**STATICALLY AND DYNAMICALLY BALANCED** all-aluminum fan wheel virtually eliminates noise and vibration.**BACKWARD CURVED, NON-OVERLOADING** aluminum fan blades provide efficient turbulence-free circulation.**BALL BEARING DRIVE AND MOTOR** mounted on neoprene vibration eliminators out of the air stream for quiet running.**SPECIALLY ENGINEERED SHOCK MOUNTS** prevent transmission of motor noise.

OPTIONAL FEATURES

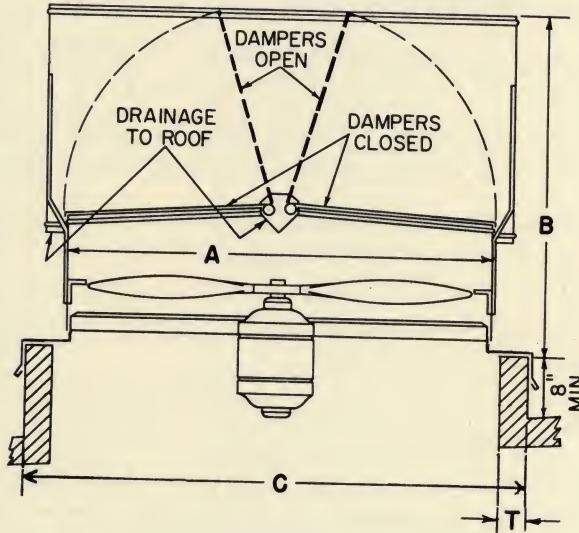
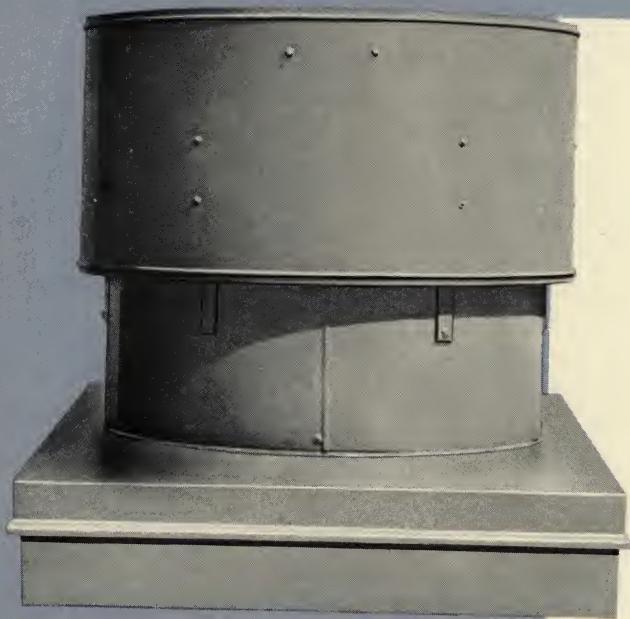
TWO-SPEED MOTORS for additional ventilation control.**EXPLOSION PROOF CONSTRUCTION** for installations over volatile processes.**UNFUSED SAFETY DISCONNECT SWITCH** provides positive shut-off.**BACK DRAFT DAMPERS**. Either automatic or motor operated, furnished separate or mounted in extended base.**BIRD SCREENS** constructed of heavy gauge rust-proof aluminum.**ACID RESISTANT COATING** for additional protection.**SPECIAL CUSTOM MODELS** to meet your special requirements.

Q-R JUNIOR AIR MOTION TABLE (Belt Drive)

MODEL NUMBER	H.P.	FAN R.P.M.	TIP SPEED	C. F. M.							
				FREE AIR	1/8	1/4	3/8	1/2	5/8	3/4	1
16B1	1/6	822	3450	1530	1380	1230	1070	860			
16B2	1/6	907	3800	1690	1525	1350	1185	945	475		
16B3	1/4	1042	4350	1950	1805	1645	1495	1335	1155	835	
16B4	1/3	1129	4700	2110	1980	1830	1690	1550	1400	1225	445
16B5	1/2	1316	5500	2460	2350	2230	2110	1990	1860	1730	1440
18B1	1/6	595	2800	1710	1505	1290	1065	565			
18B2	1/6	700	3300	2000	1775	1520	1245	665			
18B3	1/4	822	3850	2380	2160	1940	1695	1445	965		
18B4	1/3	902	4250	2610	2410	2210	2005	1785	1535	1060	
18B5	1/2	1023	4800	2950	2780	2610	2420	2250	2065	1870	1150
22B1	1/4	561	3200	2680	2390	2070	1725	1065			
22B2	1/4	623	3600	2980	2650	2300	1915	1185			
22B3	1/3	684	3900	3270	2990	2695	2340	1945	1190		
22B4	1/2	768	4400	3670	3420	3150	2900	2600	2260	1755	
22B5	3/4	875	5050	4180	3960	3730	3490	3250	3000	2750	1880
24B1	1/4	467	2950	3070	2680	2250	1720				
24B2	1/4	529	3300	3480	3030	2550	1950				
24B3	1/3	583	3650	3820	3420	2990	2520				
24B4	1/2	660	4150	4340	3980	3620	3230	1720	2340	1170	
24B5	3/4	738	4650	4860	4570	4260	3960	3600	3250	2860	1240
27B1	1/3	467	3300	4320	3840	3270	2560	1540			
27B2	1/2	529	3750	4900	4460	4000	3500	2860	1645		
27B3	3/4	612	4300	5670	5270	4870	4420	3980	3420	2490	
27B4	1	684	4800	6330	5980	5610	5230	4830	4550	3890	1930
27B5	1 1/2	778	5500	7200	6850	6560	6250	5900	5550	5180	4360
30B1	1/2	443	3450	5580	4990	4350	3640	2460			
30B2	3/4	526	4150	6690	6090	5520	4930	4310	3390	1520	
30B3	1	565	4450	7140	6560	6150	5650	5110	4480	3590	
30B4	1 1/2	660	5200	8320	7900	7460	7010	6550	6090	5550	3960
30B5	2	700	5500	8910	8450	8060	7680	7270	6870	6460	5500
33B1	3/4	438	3800	7960	7220	6410	5570	4480	2240		
33B2	1	467	4050	8500	7840	7150	6410	5580	4420	2330	
33B3	1 1/2	529	4550	9630	9030	8410	7780	7120	6470	5640	
33B4	2	583	5000	10570	10070	9500	8970	8390	7830	7200	5500
33B5	3	670	5750	12220	11750	11280	10800	10300	9820	9300	8200
36B1	3/4	373	3500	8360	7450	6470	5470	3780			
36B2	1	420	3900	9420	8600	7730	6830	5820	3950		
36B3	1 1/2	486	4550	10800	10150	9400	8660	7870	7060	5680	
36B4	2	526	4900	11750	11100	10400	9750	9100	8320	7530	
36B5	3	603	5600	13500	12950	12350	11750	11150	10550	9960	8650

E. VAN NOORDEN COMPANY 100 MAGAZINE ST., BOSTON 19, MASS.

Vanco "UPBLAST" Power ROOF VENTILATORS



VANCO "UPBLAST" Power Roof Ventilators provide efficient, low-cost ventilation for applications where large capacity, high-velocity, vertical discharge is needed to expel excessive heat, smoke and fumes. They are specifically designed for use in factories over furnaces, vats, tanks and other high heat and fume conditions.

Powerful fan action opens the dampers and provides rapid, friction-free exhaust. The exhausted air is dissipated high above the building.

Manually operated dampers are available so that unit can also be used for gravity exhaust. When manually operated dampers are ordered, a special hood is included which keeps out rain and snow when dampers are open.

"UPBLAST" Ventilators fit any flat or pitched roof and because of their heavy metal construction and simple design, they require virtually no maintenance. They are absolutely weather-tight; when the power is on, the high velocity discharge keeps out rain or snow; when the power is turned off, the sloped dampers close tightly over the fan and direct any rain water through intermediate drainage gutter or directly to exterior.

26 "UPBLAST" Models are available to exhaust from 1,628 to 86,680 cubic feet of air per minute.

"UPBLAST" Ventilators are now in use at:

WESTINGHOUSE ELECTRIC
CARNEGIE ILLINOIS STEEL
A. G. SPAULDING & CO.
DU PONT DE NEMOURS

OLIN-MATHIESON
GENERAL ELECTRIC
BROWN & SHARPE
ATOMIC ENERGY PROJECT
Oak Ridge, Tennessee

... and many other industrial and chemical plants, soap factories, power and rubber plants, refineries, paper and textile mills, foundries and machine shops.

VANCO UPBLAST PERFORMANCE AND DESIGN DATA

Model	Vent Size		Curb		Motor		C.F.M.
	A	B	C	T	H.P.	R.P.M.	
12A	13"	19"	19"	3"	1/6	1750	1628
16A	17"	23"	23"	3"	1/4	1750	3102
20A	21"	25"	29"	4"	1/4	1150	4510
20B	21"	25"	29"	4"	1/4	1750	4125
20C	21"	25"	29"	4"	1/2	1750	5583
24A	25"	27"	33"	4"	1/2	1750	7161
24B	25"	27"	33"	4"	1	1750	9075
30A	31"	30"	39"	4"	1/2	1750	9768
30B	31"	30"	39"	4"	1	1150	12100
30C	31"	30"	39"	4"	1	1750	11935
36A	37"	32"	45"	4"	1	1750	14850
36B	37"	32"	45"	4"	1	1150	15180
36C	37"	32"	45"	4"	2	1750	18480
36D	37"	32"	45"	4"	2	1150	18040
36E	37"	32"	45"	4"	3	1150	22715
42A	43"	35"	51"	4"	2	1150	23265
42B	43"	35"	51"	4"	2	870	23760
42C	43"	35"	51"	4"	3	1150	26950
48A	49"	38"	57"	4"	3	1150	31680
48B	49"	38"	57"	4"	3	870	34540
48C	49"	38"	57"	4"	5	1150	40865
60A	61"	44"	69"	4"	3	870	45100
60B	61"	44"	69"	4"	5	870	49720
60C	61"	44"	69"	4"	7 1/2	870	57860
60D	61"	44"	69"	4"	10	1150	71060
60E	61"	44"	69"	4"	15	1150	86680

VANCO Ventilators have been tested in accordance with test codes set up by NAFM, ASHVE and AMCA

Vanco "UPBLAST" Power ROOF VENTILATORS

DESIGN FEATURES

OPEN TOP for free, direct, maximum exhaust.

AUTOMATIC WEATHERTIGHT DAMPERS open to nearly vertical position with fan ON — velocity of air discharge prevents weather entry — close gently and securely with current OFF. Sloped dampers together with central streamlined gutter assure complete discharge of water in heaviest downpour.

GUARANTEED DISCHARGE CAPACITY equals 100% of rated fan capacity — discharge from 1,628 to 86,680 cubic feet of free air per minute.

SPECIFICALLY DESIGNED for excessive heat and fume conditions — far superior to hooded types of Power Ventilators which reduce discharge volume by 11% to 50%.

REINFORCED SHEET METAL CONSTRUCTION with rugged members for maximum rigidity. (Available in galvanized iron, aluminum, copper, stainless steel, and protected metal.)

QUIET DAMPER ACTION assured by rustproof nylon bearings for damper rod mountings. No maintenance.

MAINTENANCE COSTS MINIMIZED by use of totally enclosed oil-sealed ball-bearing motors, and simplicity of design.

SPECIAL DESIGN FEATURES

HIGH TEMPERATURE operation to 300°F can be provided at slight extra cost.

EXPLOSION PROTECTION AVAILABLE. Explosion proof motors and design available at slight extra cost.

DEVICE TO ISOLATE MOTORS against extreme heat or acid exhaust conditions at additional cost.

BELT-DRIVEN and other **SPECIAL CUSTOM MODELS** to meet your specific requirement.

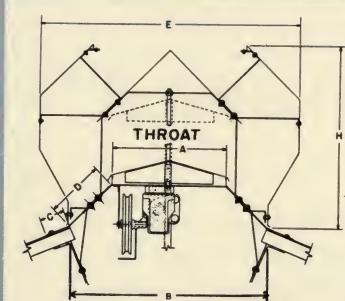
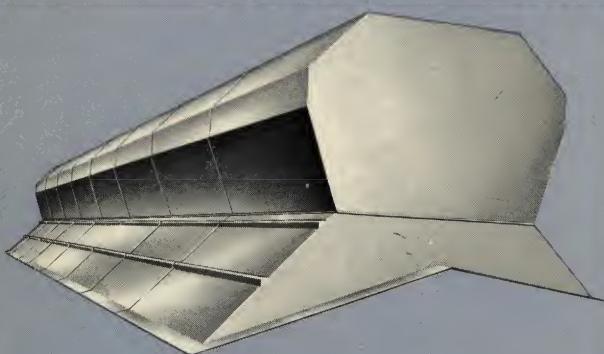
GAUGE & MATERIAL TABLE

SIZE	ALUMINUM						GALVANIZED			COPPER			PROTECTED METAL		
	(B & S Gauge)			(Thickness)			(U. S. Gauge)			(Ounces)			(U. S. Gauge)		
	Barrel	W.B.*	Base	Barrel	W.B.*	Base	Barrel	W.B.*	Base	Barrel	W.B.*	Base	Barrel	W.B.*	Base
12"	22	22	16	.025	.025	.051	24	24	18	16	16	24	24	24	24
16"	22	22	14	.025	.025	.064	24	24	18	16	16	24	24	24	24
20"	22	18	14	.040	.025	.064	22	24	18	24	18	32	22	24	22
24"	18	18	14	.040	.040	.064	22	22	18	24	18	32	22	22	20
30"	18	18	12	.040	.040	.081	22	22	16	24	24	36	22	22	20
36"	16	18	12	.050	.040	.081	20	22	16	32	24	36	20	22	20
42"	16	18	11	.050	.040	.091	20	22	14	32	24	40	20	22	18
48"	14	16	10	.064	.050	.125	20	20	12	32	32	48	20	20	18
60"	14	14	10	.064	.064	.125	18	18	11	36	36	60	18	18	18

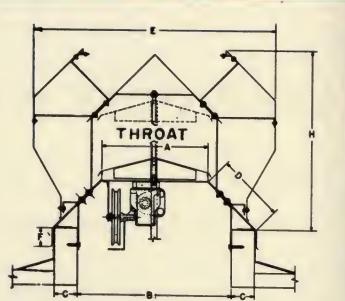
* = Wind Band

Vanco

SUPERFLO Continuous GRAVITY ROOF VENTILATORS



Peak Roof Detail



Flat Roof Detail

PEAK ROOF TABLE

A	B	C	D	E	H
4	12 1/2	4	5 1/16	11 3/4	6 15/16
6	15 1/4	4	6 1/4	14 1/2	9 7/8
9	16 1/2	4	6 7/16	21 7/8	13 13/16
12	23	4	6 7/16	29 7/8	18 7/16
15	28 5/8	4	8 3/8	36	24
18	31	5	9 1/2	43 3/4	29 5/8
20	34	5	11 3/8	48	32
24	45	5	14 1/2	58	38 1/4
30	57	5	17 3/4	72	49
36	64	5	20	86 3/8	58 15/16
42	76	5	22 7/8	98	66
48	88	5	26 5/8	116	75

FLAT ROOF TABLE

A	B	C	D	E	F	H
4	7	4	7 1/16	11 3/4	3	6 15/16
6	9 1/4	4	8 3/8	14 1/2	3	9 7/8
9	11 3/4	4	8 7/16	21 7/8	3	13 13/16
12	16	4	8 7/16	29 7/8	3	18 7/8
15	21 3/4	4	10 1/2	36	3	24
18	26 1/4	4	10 5/8	43 3/4	4	29 5/8
20	31	4	13 1/2	48	4	32
24	39 1/2	4	16 5/8	58	4	38 1/4
30	50	4	19 7/8	72	4	49
36	59	4	22 1/8	86 3/8	4	58 15/16
42	69 1/4	4	25	98	4	66
48	82	4	28 1/2	116	4	75

STANDARD MATERIAL GAUGE CHART

THROAT SIZE	GALV. (U.S. Gauge)	ALUMINUM (Thick.)	COPPER (Ounces)	PROTECTED METAL (U.S. Gauge)
4"	24	.025	16	24
6"	24	.025	16	24
9"	24	.025	16	24
12"	22	.032	20	22
15"	22	.032	20	22
18"	20	.040	24	20
20"	20	.040	24	20
24"	20	.040	32	20
30"	20	.040	32	20
36"	20	.040	32	20
42"	20	.040	32	20
48"	18	.051	40	18

SPECIFICATIONS

Continuous roof ventilators shall be _____ throat VANCO SUPERFLO Continuous Roof Ventilators. They shall consist of _____ gauge (specify material) and shall be complete with exterior windband, integral rain cone, and curb flashing. Braces shall be (specify material). Dampers shall be chain operated by means of reduction gear power, continuous shaft, and chain wheel. Shaft shall pass through roller bearing hangers (2 to each 10 ft. of length) to insure free operation. Screen (required) shall be _____.

VANCO'S SUPERFLO Continuous Roof Ventilators insure the most effective means of removing large volumes of air from buildings by natural air flow. Installed over an entire length of any roof or skylight, VANCO SUPERFLO Ventilators release unwanted heat, fumes, and smoke by direct unhampered gravity flow.

These units are furnished in galvanized iron, aluminum, copper, protected metal, or stainless steel, as required. Braces can be painted steel, hot-dipped galvanized, or aluminum. Dampers can be operated by manual chain or motor.

BASE RATINGS PER
10 FT. LENGTH

THROAT SIZE	BASE C.F.M.
4"	1000
6"	1500
9"	2250
12"	3000
15"	3750
18"	4500
20"	5000
24"	6000
30"	7500
36"	9000
42"	10500
48"	12,000

HEIGHT & TEMPERATURE FACTORS

STACK HEIGHT

TEMPERATURE	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
5°	.45	.50	.64	.70	.76	.79	.84	.89	.93	.96	1.00	1.03	1.06	1.09	1.12
10°	.59	.72	.84	.93	1.00	1.04	1.12	1.15	1.21	1.27	1.31	1.34	1.40	1.43	1.46
15°	.70	.85	.97	1.07	1.17	1.22	1.30	1.35	1.42	1.48	1.54	1.58	1.63	1.67	1.71
20°	.77	.96	1.11	1.20	1.30	1.37	1.46	1.54	1.60	1.67	1.73	1.78	1.84	1.88	1.93
25°	.84	1.03	1.19	1.30	1.41	1.49	1.56	1.66	1.73	1.80	1.86	1.93	2.00	2.03	2.06
30°	.91	1.12	1.28	1.42	1.54	1.62	1.69	1.78	1.87	1.97	2.03	2.10	2.15	2.20	2.24
35°	.98	1.19	1.37	1.50	1.63	1.73	1.80	1.91	2.01	2.06	2.15	2.22	2.28	2.36	2.40
40°	1.03	1.26	1.46	1.60	1.74	1.81	1.93	2.02	2.10	2.20	2.28	2.37	2.42	2.48	2.53
45°	1.14	1.31	1.51	1.68	1.80	1.90	2.02	2.10	2.20	2.30	2.40	2.48	2.54	2.61	2.64

Vanco

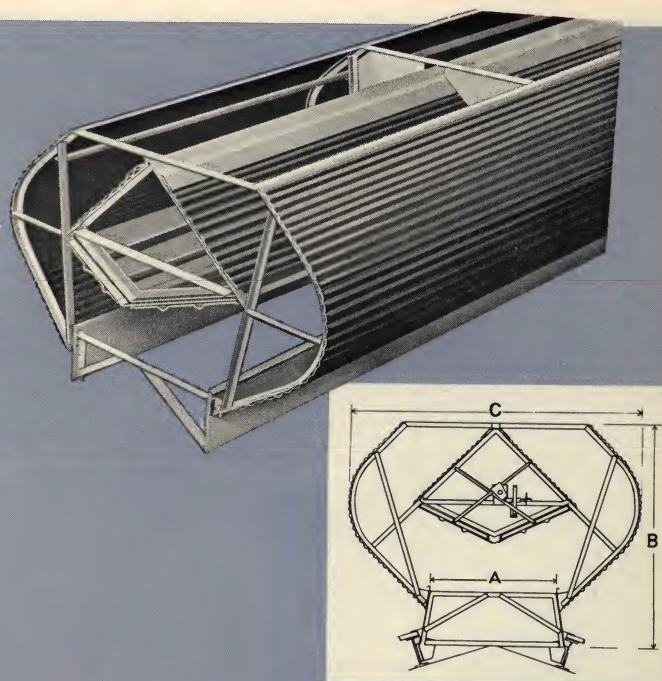
SLEEK-LINE Continuous GRAVITY ROOF VENTILATORS

VANCO SLEEK-LINE CONTINUOUS ROOF VENTILATORS are ideal for exhausting large volumes of heat and fumes on buildings where large furnaces or other heat or fume creating equipment is used in the processes. Available in a variety of throat sizes from 36" through 96", VANCO Sleek-Line Roof Ventilators give positive ventilation while protecting against penetration of the elements.

They can be installed on any type of roof to provide the pleasant architectural appearance you desire and they are designed to efficiently operate regardless of wind direction. VANCO Sleek-Line Continuous Roof Ventilators are engineered to withstand hurricane, wind and snow load.

VANCO Sleek-Line Continuous Roof Ventilators are available in a variety of materials with aluminum, galvanized iron, or protected metal skin with painted steel, hot dipped galvanized or aluminum braces. Special coatings are available upon request.

Standard chain or motor operated butterfly dampers give positive control of exhaust. VANCO Sleek-Line Continuous Roof Ventilators are also available with fusible link and manual operated pivoted dampers.



BASE RATINGS PER
10 FT. LENGTH

THROAT SIZE	BASE CFM
36"	4500
42"	5250
48"	6000
60"	7500
72"	9000
84"	10500
96"	12000

DIMENSIONAL CHART

MODEL NUMBER	A	B	C
S36	36"	68½"	84"
S42	42"	77½"	97½"
S48	48"	86½"	111"
S60	60"	104½"	138"
S72	72"	122½"	165"
S84	84"	140½"	192"
S96	96"	158½"	219"

HEIGHT AND TEMPERATURE FACTORS STACK HEIGHT

TEMP.	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
5°	.90	1.00	1.28	1.40	1.52	1.58	1.68	1.78	1.86	1.92	2.00	2.06	2.12	2.18	2.24
10°	1.18	1.44	1.68	1.86	2.00	2.08	2.24	2.30	2.42	2.54	2.62	2.68	2.80	2.86	2.92
15°	1.40	1.70	1.94	2.14	2.34	2.44	2.60	2.70	2.84	2.96	3.08	3.16	3.26	3.34	3.42
20°	1.54	1.92	2.22	2.40	2.60	2.74	2.92	3.08	3.20	3.34	3.46	3.56	3.68	3.76	3.86
25°	1.68	2.06	2.38	2.60	2.82	2.98	3.12	3.32	3.46	3.60	3.72	3.86	4.00	4.06	4.12
30°	1.82	2.24	2.56	2.84	3.08	3.24	3.38	3.56	3.74	3.94	4.06	4.20	4.30	4.40	4.48
35°	1.96	2.38	2.74	3.00	3.26	3.46	3.60	3.84	4.02	4.12	4.30	4.44	4.56	4.72	4.80
40°	2.06	2.52	2.92	3.20	3.48	3.62	3.86	4.04	4.20	4.40	4.56	4.74	4.84	4.86	5.06
45°	2.28	2.62	3.02	3.36	3.60	3.80	4.04	4.20	4.40	4.60	4.80	4.96	5.08	5.22	5.28

To ascertain performance rating, multiply base rating of Throat Size by height and temperature factor;
e.g. 36" throat, 20' stack height, 20° temperature differential. $4500 \times 2.22 = 9900 \text{ CFM}$

SPECIFICATIONS

Continuous Roof Ventilators shall be VANCO Sleek-Line as manufactured by the E. Van Noorden Company, Boston 19, Mass. Dampers shall be butterfly type, chain operated (motor-operated—optional). (Also optional—pivoted type with fusible link and chain operators.)

Skin shall be aluminum (galvanized iron, protected metal). Braces shall be spaced no more than 8 ft. on center and shall be painted steel (hot dipped galvanized, aluminum). Ventilators shall be designed to withstand wind velocity of 80 mph.

VANCO Sleek-Line Ventilators have been installed in such large plants as:

OLIN-MATHIESON CHEMICAL Co., Niagara, N. Y.

H. K. Ferguson, Contractor, Blaw Knox, Engineers

CHEVROLET MOTOR CAR Co., Indianapolis, Indiana

Argonaut Realty Corp., Engineers

REYNOLDS METALS Co., Massena, N. Y.

Bechtel Associates, Engineers and Contractors

CHEVROLET DIV., Aluminum Foundry, Massena, N. Y.

John W. Rouse Construction Co.

Smith, Hinchman & Grylls, Engineers

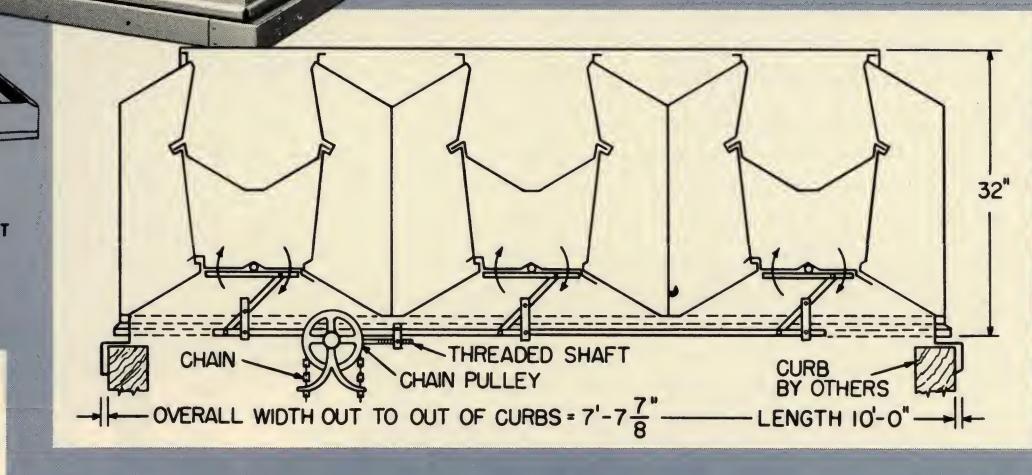
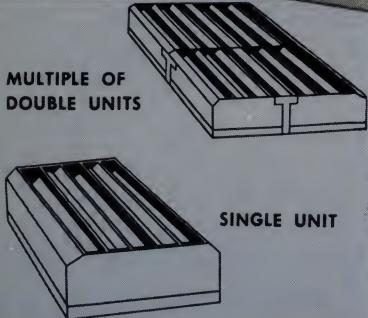
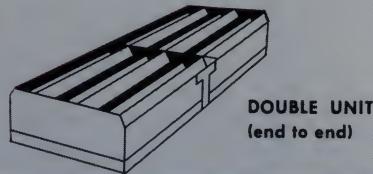
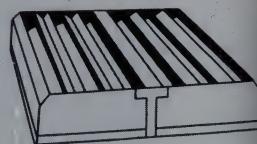
E. VAN NOORDEN COMPANY

100 MAGAZINE ST., BOSTON 19, MASS.

Vanco EXHAUSTMASTER ROOF VENTILATORS



MULTIPLE OF
SINGLE UNIT
(side by side)



VANCO'S EXHAUSTMASTER Gravity Roof Ventilators are specifically designed for areas wherever large volumes of air must be exhausted. Air flows easily up through the vents — yet rain and moisture are positively "locked out". Years of performance against the elements have proved the EXHAUSTMASTER to be absolutely weathertight.

The EXHAUSTMASTER can be easily installed on any type roof on schools, auditoriums, warehouses, factories, mills, and similar structures. *Architecturally and mechanically* VANCO ROOF EXHAUSTMASTERS are the perfect roof

ventilator for large air exhaust and quiet operation.

Dampers may be manually or electrically operated. For areas over stages, cafeterias, auditoriums or other locations where special fusible link operated fire and smoke release ventilation is required, the VANCO EXHAUSTMASTER (Factory Mutual Approved) is the ideal ventilator. When fusible link is actuated at 160°F, counterweighted dampers open fully, immediately allowing heat and smoke to pass rapidly out of the building.

Each standard size provides an opening of 30 square feet.

MATERIAL GAUGE LIST STANDARD UNITS

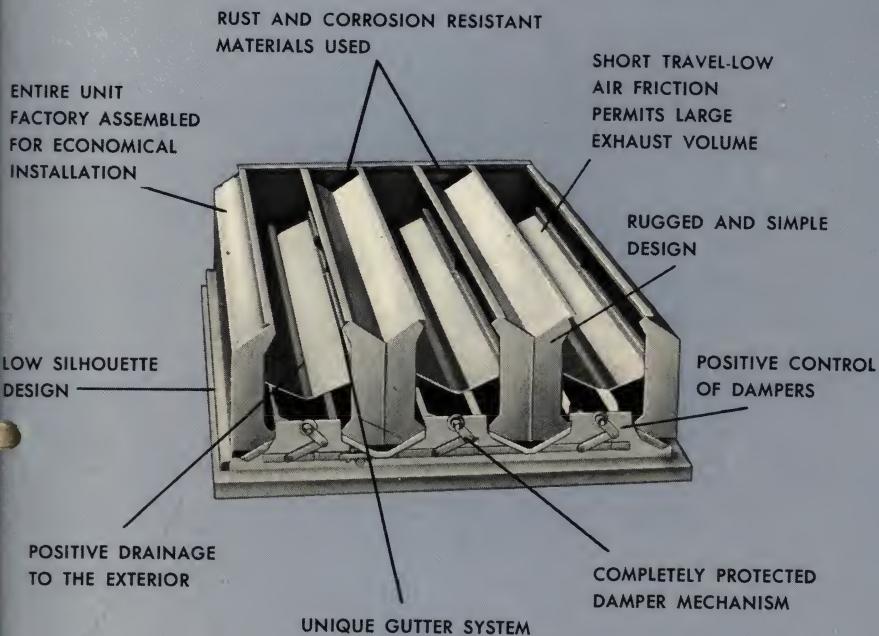
EXHAUSTMASTER	CURB	END CAP	BAFFLES ETC.
Galvanized	16	22	22
Aluminum	14	20	20
A.P.M.	18	22	22
Copper	48 oz.	24 oz.	24 oz.
Stainless Steel	16	22	22

DIMENSIONS OF STANDARD UNITS

10' x 7' 8"	Standard Size
5' x 5' 2"	Special Size
5' x 7' 8"	Special Size
7' 6" x 7' 8"	Special Size
10' x 5' 2"	Special Size
App. Shipping Wt. 900 Lbs. Per Unit	

Special sizes from 5 to 10 feet long by 7 ft. 8 inches wide. Standard size Exhaustmasters in group units are measured in multiples of 7' 6" plus an additional 2" overall.

Vanco EXHAUSTMASTER ROOF VENTILATORS



SPECIFICATIONS

Ventilator unit shall be of a gravity type commercially known as the VANCO EXHAUSTMASTER, as manufactured by the E. Van Noorden Company, Boston 19, Mass.

Ventilator shall be fabricated from galvanized sheet metal with the following minum gauges: curb and reinforcing plate, 16 gauge; interior bracing, 18 gauge; ends and sides, 22 gauge. Other parts shall be of a gauge strong enough to be self supporting and stand without deflection. Where other types of metal are required, gauges shall conform to manufacturer's standard.

Each unit shall be 7' 8" x 10' x 32" high, arranged in sections as shown on drawing with 40% free area. Grouped units shall be in multiples of 7' 6" in width plus 2" overall.

The ventilator shall be so constructed with a series of gutters, troughs, and baffles, that it will give positive air exhaust with guaranteed rain-tightness. Upper and lower troughs must be so designed as to permit proper drainage on both ends. Splash shields shall be provided at each end of upper ridge trough.

Damper shall be designed for manual operation by means of chain and miter gears, to permit adjustable opening as well as full open and closed. Operation of the damper shall be of a lever type insuring uniform operation at all times.

NOTE: Dampers may also be furnished with motor or fusible link operators (optional at extra cost).

BASE RATING 14,800 C.F.M. FOR STANDARD UNIT 7' 6" x 10'. To find exhaust capacity multiply 14,800 C.F.M. by figure beneath temperature differential pertaining to specified stack height.

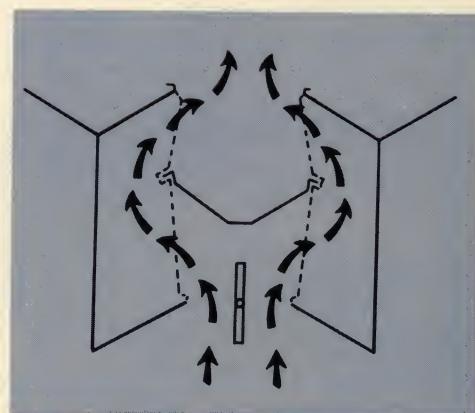
STACK HEIGHT	TEMPERATURE DIFFERENTIALS								
	5°	10°	15°	20°	25°	30°	35°	40°	45°
15 FT.	.42	.55	.65	.75	.80	.85	.90	.95	1.
20 FT.	.48	.64	.75	.84	.90	.98	1.05	1.12	1.18
25 FT.	.53	.70	.82	.92	1.	1.09	1.16	1.23	1.29
30 FT.	.58	.77	.90	1.02	1.10	1.19	1.26	1.33	1.39
35 FT.	.61	.81	.94	1.06	1.14	1.23	1.30	1.37	1.43
40 FT.	.65	.86	1.	1.12	1.20	1.30	1.38	1.46	1.54
50 FT.	.71	.93	1.10	1.24	1.33	1.44	1.53	1.62	1.71
60 FT.	.78	1.02	1.20	1.35	1.45	1.57	1.67	1.77	1.87
70 FT.	.85	1.10	1.28	1.43	1.53	1.65	1.75	1.85	1.95
80 FT.	.90	1.15	1.33	1.48	1.58	1.70	1.80	1.90	2.

DESIGN FEATURES

Each throat has its own damper—EXHAUSTMASTER provides even, continuous air exhaust.

VANCO'S exclusive pneumatic system for damper operation is available as an optional feature.

Smoke and Fume Exhaust models are available—Dependable VANCO EXHAUSTMASTERS can be equipped with fusible links which will cause dampers to open to "full open" in case of fire.

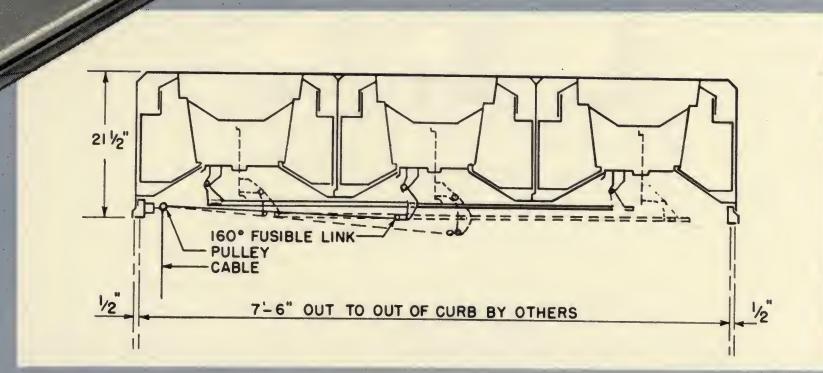


EXHAUSTMASTER FLOW DIAGRAM

The above flow diagram shows the flow of air through the EXHAUSTMASTER Roof Ventilator as it circulates by the rain and moisture drainage troughs, dampers, and then into the air currents above.

E. VAN NOORDEN COMPANY 100 MAGAZINE ST., BOSTON 19, MASS

Vanco LOW PROFILE EXHAUSTMASTER



VANCO Low Profile Exhaustmaster Roof Ventilators are similar to Standard VANCO Exhaustmaster in basic design and operating features. Because they are 10 1/2" lower in height than the standard units, they are particularly suitable for installations where low silhouettes are desirable as well as high exhaust capacity.

Weathertight construction positively locks out rain and moisture yet allows the air to flow easily up through the vents.

VANCO Low Profile Exhaustmasters can be installed as single units, or in multiples.

SPECIFICATIONS

Ventilator unit shall be of a gravity type commercially known as the VANCO LOW PROFILE EXHAUSTMASTER, as manufactured by the E. Van Noorden Company, Boston 19, Mass.

Ventilator shall be fabricated from galvanized sheet metal with the following minimum gauges: curb and reinforcing plate, 16 gauge; interior bracing, 18 gauge; ends and sides, 22 gauge. Other parts shall be of a gauge strong enough to be self supporting and stand without deflection. Where other types of metal are required, gauges shall conform to manufacturer's standard.

Each unit shall be 7' 6" x 10' x 21" high, arranged in sections as shown on drawing with 40% free area.

The ventilator shall be so constructed with a series of gutters, troughs, and baffles, that it will give positive air exhaust with guaranteed rain-tightness. Upper and lower troughs must be so designed as to permit proper drainage on both ends. Splash shields shall be provided at each end of upper ridge trough.

Dampers shall be designed for manual operation by means of chain and miter gears, to permit adjustable opening as well as full open and closed. Operation of the damper shall be of a lever type insuring uniform operation at all times.

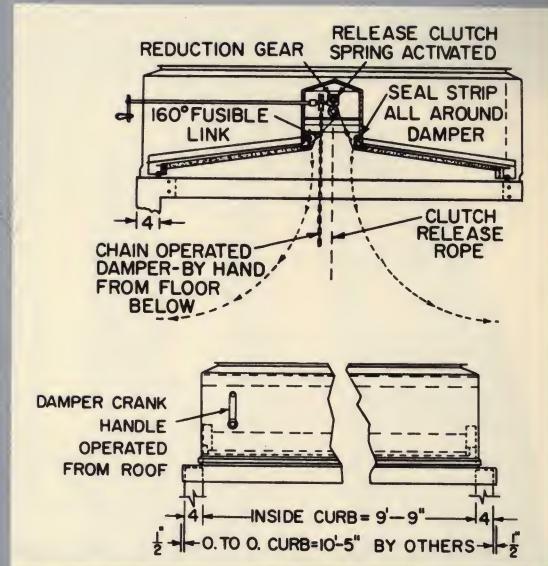
NOTE: Dampers may also be furnished with motor or fusible link operators (optional at extra cost). Stainless steel cable operators with self-locking drum are also available on specific request.

MATERIAL GAUGE LIST STANDARD UNITS			
Low Profile Exhaustmaster	Curb	End Cap	Baffles Etc.
Galvanized	16	22	22
A.P.M.	16	22	22
Aluminum	14	20	20
Copper	48	24	24
Stainless Steel	16	22	22

DIMENSIONS OF STANDARD UNITS	
Sizes Available	Outside Curb Dimensions
Length Width	Length Width
10' x 7'6"	9'6" x 7'6"
5' x 5'	4'6" x 5'0"
5' x 7'6"	4'6" x 7'6"
7'6" x 7'6"	7'0" x 7'6"
10' x 5'	9'6" x 5'0"
Approximate Shipping Wt. 750 Lbs. Per Unit	

Special sizes from 5' to 10' long by 7'6" wide. Standard size Low Profile Exhaustmasters in group units are measured in multiples of any of the above widths.

Vanco FIRE VENT ROOF VENTILATORS



VANCO'S FIRE VENT Roof Ventilator provides "open roof" fire ventilation—the modern method of large scale air movement. The FIRE VENT is factory assembled and is easily installed to completely cover any roof old or new. No costly alterations to existing roofs are required.

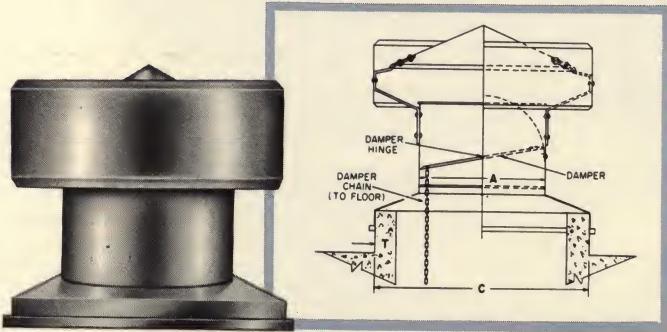
The standard FIRE VENT Roof Ventilator is 10' 5" long by 6' 6" wide by 21" high above the curb. When dampers are open, a total of 46 sq. ft. of free area is provided. The damper

hinges contain no parts that will corrode or freeze in any way.

Fusible links on the operating chains automatically release when temperature reaches 160°F, letting dampers drop open of their own weight and permitting the escape of smoke, heat, and gases. In ordinary use the FIRE VENT damper is chain operated by hand. A clutch release rope may also be used.

The FIRE VENT can also be used for extra ventilation when needed in dry weather. It is weatherproof when closed.

SIMPLEX Certified ROOF VENTILATORS



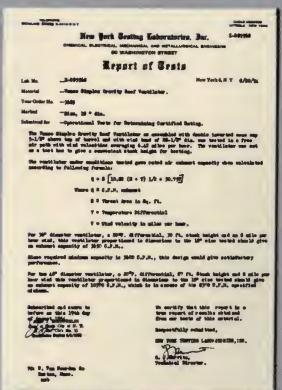
VANCO'S SIMPLEX Roof Ventilator offers certified maximum gravity ventilation in a unit that combines unusual air movement efficiency with economical yet sturdy construction. Of advanced design, the SIMPLEX Ventilator is weather-tight, and has no operating parts to get out of order, therefore, no replacement or maintenance costs. The first cost is the last cost with SIMPLEX Roof Ventilators.

SIMPLEX Models are available with or without dampers or bases an in aluminum, copper, galvanized iron and asbestos protected metal.

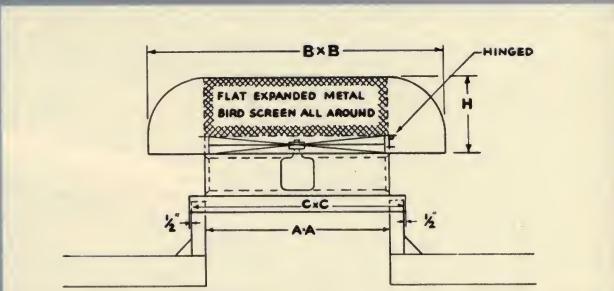
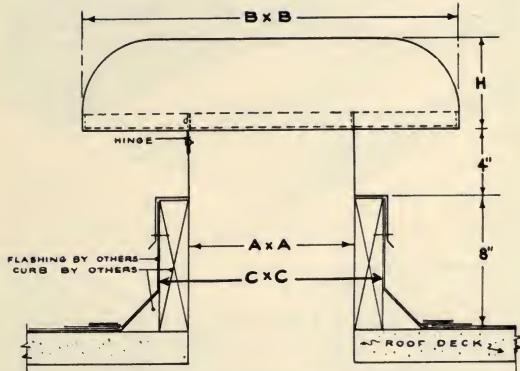
EXHAUST CAPACITIES ARE BASED ON CERTIFIED TESTS BY AN INDEPENDENT NEW YORK TESTING LABORATORY. SEE REPORT OF TESTS BELOW...

DIMENSION CHART			MATERIAL GAUGE CHART											
A	C	T	GALVANIZED (U.S. Gauge)		ALUMINUM Thick. (B&S Gauge)		COPPER (Ounces)		PROTECTED METAL (U.S. Gauge)		EXHAUST* CHART			
			VENT	BASE	VENT	BASE	VENT	BASE	VENT	BASE	CFM			
8"	14"	2"	24	24	22	22	16	16	26	24	130			
10"	18"	2"	24	24	22	22	16	16	26	24	202			
12"	19"	3"	24	18	20	16	16	24	24	24	292			
14"	21"	3"	24	18	20	16	16	24	24	22	347			
16"	23"	3"	24	18	20	14	16	24	24	22	518			
18"	27"	4"	24	18	20	14	16	24	24	22	655			
20"	29"	4"	24	18	20	14	16	32	24	22	810			
24"	33"	4"	24	18	18	14	16	32	24	22	1165			
30"	39"	4"	22	16	18	12	20	36	22	20	1820			
36"	45"	4"	22	16	18	12	20	36	22	20	2622			
42"	51"	4"	20	14	16	11	24	40	20	18	3562			
48"	57"	4"	20	12	16	10	24	48	20	18	4660			

*Based on 20' Stack Height, 20° Temperature Differential & 5 M.P.H. Wind Velocity (Average Conditions).



E. VAN NOORDEN COMPANY 100 MAGAZINE ST., BOSTON 19, MASS.



VANCO Roof-Line Ventilators are the answer to low silhouette efficient ventilation. Architecturally designed for tomorrow's buildings, VANCO Roof-Line Ventilators are available in a variety of Gravity and Power Units.

ROOF-LINE Power Ventilators are available for either exhaust or intake as desired. In the exhaust model, air is forced out and downward to the roof; in the intake model, air is suction-guided into the building.

SPECIFICATIONS

ROOF-LINE POWER TYPE

Ventilators shall be VANCO ROOF-LINE Power Ventilators, as manufactured by the E. Van Noorden Company, Boston 19, Mass. (Specify exhaust or intake.) They shall be of standard gauge material used by the manufacturer for the size specified. The power and fan assembly shall be a complete package unit installed in the base of the ventilator and shall consist of a totally enclosed ball bearing motor driving a cast aluminum propeller. Motor shall be arranged for vertical operation. Mounting frame shall be welded truss type with an integral air seal ring. Hood shall be hinged or bolted to the base and shall be removable for easy access to the interior of the ventilator.

ROOF-LINE Gravity Ventilators provide efficient exhaust over areas where positive pressure exists. The exhaust air is deflected downward to the roof.

ROOF-LINE GRAVITY TYPE

Ventilators shall be VANCO ROOF-LINE Gravity Ventilators, as manufactured by the E. Van Noorden Company, Boston 19, Mass. They shall be of standard gauge material used by the manufacturer for the size specified. Hood shall be hinged or bolted to the base and shall be removable for easy access to the interior of the ventilator. Outlet opening shall be at least 1 1/2 times the inlet opening. Hood edge and supporting bracing shall be of rigid reinforced construction.

POWER DIMENSIONAL CHART

MODEL	A x A	C x C	B x B	H	CFM*	HP	RPM
RL12A	12"	20"	23"	15"	1470	1/4	1750
RL16A	16"	24"	30"	18"	2800	1/4	1750
RL20A	20"	28"	37"	21"	4100	1/4	1150
RL20B	20"	28"	37"	21"	3700	1/4	1750
RL20C	20"	28"	37"	21"	4900	1/2	1750
RL24A	24"	32"	44"	24"	6300	1/2	1750
RL24B	24"	32"	44"	24"	8100	1	1750
RL30A	30"	38"	54"	28"	8800	1/2	1750
RL30B	30"	38"	54"	28"	10800	1	1150
RL30C	30"	38"	54"	28"	10700	1	1750
RL36A	36"	44"	65"	33"	13200	1	1750
RL36B	36"	44"	65"	33"	13500	1	1150
RL36C	36"	44"	65"	33"	16600	2	1750
RL36D	36"	44"	65"	33"	16200	2	1150
RL36E	36"	44"	65"	33"	20500	3	1150
RL42A	42"	50"	75"	38"	21000	2	1150
RL42B	42"	50"	75"	38"	21400	2	870
RL42C	42"	50"	75"	38"	24300	3	1150
RL48A	48"	56"	88"	42"	28500	3	1150
RL48B	48"	56"	88"	42"	31000	3	870
RL48C	48"	56"	88"	42"	36000	5	1150

* CFM Based on Free Air

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ALL VANCO products are A. F. of L. Building Trades Union made — your assurance of highest quality throughout.

Since it is the policy of E. Van Noorden Company to continually improve design and construction of its products, all details and specifications noted herein are subject to change without notice.

E. VAN NOORDEN COMPANY
100 MAGAZINE ST., BOSTON 19, MASS.

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